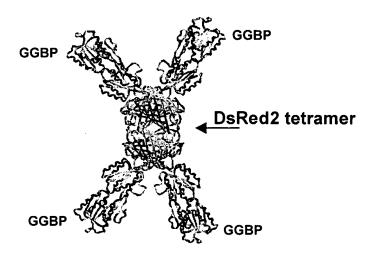
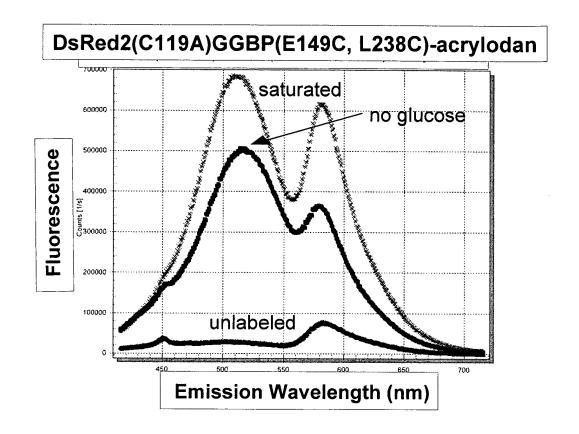


FIG. 1



DsRed2(C119A)GGBP tetrameric structure



DsRed2(C119A)GGBP(L238C)-acrylodan

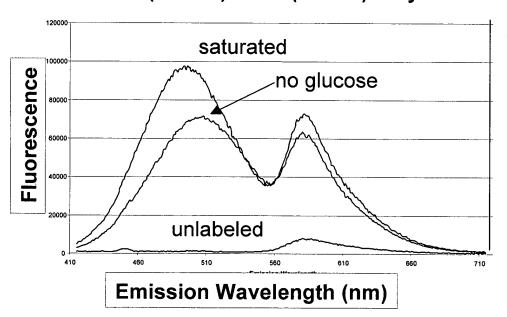
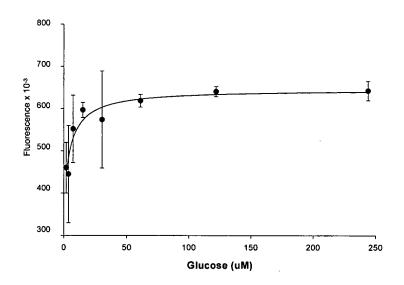


FIG. 3

dsRed2(C119A)-GGBP(L238C)-acrylodan $\rm K_d$ =5.7 μM



 $\label{eq:DsRed2} \begin{aligned} DsRed2(C119A)GGBP(E149C,L238C)\text{-acrylodan} \\ K_{d} = 1 \text{ mM} \end{aligned}$

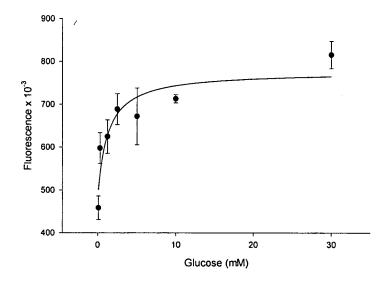


FIG. 4

Ratiometric Detection

DsRed2(C119A)GGBP(L238C)-acrylodan

